

产品名称: **LJH685**

产品别名: **LJH685**

生物活性:																											
<b>Description</b>	LJH685 is a potent, specific and selective RSK inhibitor, inhibits RSK1, 2, and 3 biochemical activities with IC50s of 6, 5, 4 nM, respectively[1].																										
<b>IC<sub>50</sub> &amp; Target</b>	IC50: 6 nM (RSK1), 5 nM (RSK1), 4 nM (RSK1)[1]																										
<b>In Vitro</b>	LJH685 (0.01-100 μM; 72 hours) efficiently inhibits the growth of MDA-MB-231 and H358 cells in soft agar with EC50s of 0.73 and 0.79 μM, respectively[1]. LJH685 (0.1-10 μM; 4 hours) efficiently reduces phosphorylation of YB1 at submicromolar concentrations and causes nearly complete inhibition at higher concentrations[1].																										
	<b>Cell Proliferation Assay[1]</b>																										
	Cell Line: MDA-MB-231, H358 cells																										
	Concentration: 0.01, 0.1, 1, 10, 100 μM																										
	Incubation Time: 72 hours																										
	Result: The growth in soft agar was efficiently inhibited with EC <sub>50</sub> values of 0.73 and 0.79 μM in MDA-MB-231 and H358, respectively.																										
	<b>Western Blot Analysis[1]</b>																										
	Cell Line: MDA-MB-231, H358 cells																										
	Concentration: 0.1, 0.3, 1, 3, 10 μM																										
	Incubation Time: 4 hours																										
Result: Efficiently reduced phosphorylation of YB1 at submicromolar concentrations and caused nearly complete inhibition at higher concentrations.																											
<b>Solvent&amp;Solubility</b>	<b>In Vitro:</b> <b>DMSO : 10 mg/mL (26.22 mM; Need ultrasonic)</b>																										
	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th>Solvent</th> <th>Mass</th> <th rowspan="2">1 mg</th> <th rowspan="2">5 mg</th> <th rowspan="2">10 mg</th> </tr> <tr> <th>Concentration</th> <th></th> </tr> </thead> <tbody> <tr> <td><b>Preparing</b></td> <td>1 mM</td> <td></td> <td>2.6218 mL</td> <td>13.1089 mL</td> <td>26.2178 mL</td> </tr> <tr> <td><b>Stock Solutions</b></td> <td>5 mM</td> <td></td> <td>0.5244 mL</td> <td>2.6218 mL</td> <td>5.2436 mL</td> </tr> <tr> <td></td> <td>10 mM</td> <td></td> <td>0.2622 mL</td> <td>1.3109 mL</td> <td>2.6218 mL</td> </tr> </tbody> </table>		Solvent	Mass	1 mg	5 mg	10 mg	Concentration		<b>Preparing</b>	1 mM		2.6218 mL	13.1089 mL	26.2178 mL	<b>Stock Solutions</b>	5 mM		0.5244 mL	2.6218 mL	5.2436 mL		10 mM		0.2622 mL	1.3109 mL	2.6218 mL
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*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时，请在 6 个月内使用， -20°C 储存时，请在 1 个月内使用。																											
<b>References</b>	<p>[1]. Aronchik I, et al. Novel potent and selective inhibitors of p90 ribosomal S6 kinase reveal the heterogeneity of RSK function in MAPK-driven cancers. Mol Cancer Res. 2014 May;12(5):803-12.</p> <p>[2]. Davies AH, et al. Inhibition of RSK with the novel small-molecule inhibitor LJ1308 overcomes chemoresistance by eliminating cancer stem cells. Oncotarget. 2015 Aug 21;6(24):20570-7.</p> <p>[3]. Jain R, et al. Discovery of Potent and Selective RSK Inhibitors as Biological Probes. J Med Chem. 2015 Sep 10;58(17):6766-83.</p>																										